

SECTION 136

STRUCTURAL STEEL PLATE FOR PIPE, ARCHES, AND PIPE ARCHES

136.1 GENERAL

136.1.1 Structural steel plate for pipe, arches, and pipe arches shall be of the sizes, gauges, and dimensions designated on the plans or in the Supplementary Specifications and as specified herein.

136.1.2 These types of pipe shall only be used for transverse roadway culverts drainage applications.

136.2 REFERENCES:

136.2.1 AASHTO
M 36 M 190
M 167

136.3 MATERIALS

136.3.1 Plates and nuts and bolts shall conform to the specifications of AASHTO M 167.

136.3.2 Galvanized surfaces which are damaged shall be repaired in accordance with the provisions in AASHTO M 36, Repair of Damaged Spelter Coating.

136.4 DISTORTION

136.4.1 In advance of placing backfill material around circular structural plate pipes, the pipe shall be distorted.

136.4.2 Distortion may be performed either at the fabricating shop or in the field.

136.4.3 If the plates are distorted in the fabricating shop, the plates shall be distorted to provide an increase in the vertical diameter of the pipe after assembly of approximately 5 percent for the full length.

136.4.4 Plates shall be marked in order to assure that they will be placed in proper position.

136.4.5 If the pipes are distorted in the field, the method of distortion shall conform to the details shown on the plans.

136.5 MEASUREMENT AND PAYMENT

136.5.1 When only required as a separate material item, the following will apply:

136.5.1.1 The measurement of structural plate for pipe, arches, and pipe arches will be by the linear foot measured along

the centerline of the pipe or arch to the nearest foot.

136.5.1.2 Structural plate for pipe with beveled or skewed ends measurement will be along the invert to the nearest foot.

136.5.1.3 Payment shall be made at the unit price per linear foot as defined in the Bid Proposal.

136.5.2 If this material is to be used in conjunction with a complete installation, then the measurement and payment will be defined in Section 910.